

## EAST Search History

| Ref # | Hits | Search Query                                  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 610  | (375/220).CCLS.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/15 22:09 |
| L2    | 0    | ("L1and(differentialnear3buffer)").PN.        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/03/15 22:09 |
| L3    | 8    | L1 and (differential near3 buffer)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/15 22:09 |
| L4    | 2    | L3 and (echo near3 cancell\$7)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/15 22:10 |
| S1    | 9    | ("5528687" "5896420" "6246716" "6259680").PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/11 15:12 |
| S2    | 131  | (rise near3 time) and (echo near3 cancell\$6) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/15 20:43 |
| S3    | 75   | S2 and @pd<"20031209"                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/15 20:56 |
| S4    | 57   | S3 and (transmit\$5 and receiv\$5)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/03/13 17:25 |

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|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S5  | 3 | S4 and ((rise near3 time) with (adjust\$4 or adapt\$4 or shift\$4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/13 17:26 |
| S6  | 3 | (US-4912758-\$ or US-4991166-\$ or US-6351509-\$).did.   | USPAT   | OR | ON | 2007/03/13 17:31 |
| S7  | 1 | (echo near3 cancell\$7) and (coarse near3 delay) and (fine near3 delay) and (amplitude near3 (control or adjust\$4)) and (rise near3 time) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:09 |
| S8  | 8 | (echo near3 cancell\$7) and (coarse near3 delay) and (fine near3 delay)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:16 |
| S9  | 5 | S8 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:45 |
| S10 | 1 | (US-6166573-\$).did.   | USPAT   | OR | ON | 2007/03/14 21:12 |
| S11 | 2 | (echo near3 cancell\$7) and (amplitude near3 (adjust\$4 or control)) and (rise near3 time near3 (control or adjust\$4))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:25 |
| S12 | 1 | S11 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:25 |
| S13 | 4 | (US-4912758-\$ or US-4991166-\$ or US-6166573-\$ or US-6351509-\$).did.  | USPAT   | OR | ON | 2007/03/14 21:19 |
| S14 | 3 | S13 and (rise near3 time)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:19 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S15 | 11   | (echo near3 cancell\$7) and (rise near3 time near3 (control or adjust\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:30 |
| S16 | 6    | S15 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:30 |
| S17 | 65   | (adjust near3 rise near3 time) and (match or echo)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:30 |
| S18 | 27   | S17 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:37 |
| S19 | 0    | S18 and (echo near3 cancell\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:31 |
| S20 | 3    | S18 and (echo)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:35 |
| S21 | 2331 | ((rise near3 time) near4 (control or adjust\$4)) and (pulse or bits)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:35 |
| S22 | 1769 | S21 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:41 |

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|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S23 | 6   | S22 and (echo near3 cancell\$7)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:40 |
| S24 | 527 | (rise near3 time) WITH adjust                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:41 |
| S25 | 330 | S24 and @pd<"20031209"                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:56 |
| S26 | 26  | S25 and ((waveform or pulse or signal) with match)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:42 |
| S27 | 1   | 2002-478158.NRAN.   | DERWENT   | OR | ON  | 2007/03/14 21:44 |
| S28 | 2   | ("6362672").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/03/14 21:45 |
| S29 | 2   | S28 and (rise near2 time)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:45 |
| S30 | 1   | (US-6362672-\$).did.                                      | USPAT   | OR | ON  | 2007/03/14 21:46 |
| S31 | 2   | (US-6166573-\$ or US-6278785-\$).<br>did.                 | USPAT   | OR | ON  | 2007/03/14 21:49 |
| S32 | 3   | (US-6166573-\$ or US-6278785-\$ or<br>US-6362672-\$).did. | USPAT   | OR | ON  | 2007/03/14 21:52 |
| S33 | 0   | S32 and (training near3 (pattern or<br>sequence))         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/14 21:54 |

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| S34 | 1  | S32 and (peak near3 detect\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:55 |
| S35 | 42 | (echo near3 cancell\$5) and (peak near3 detector) and (amplitude same phase)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:56 |
| S36 | 24 | S35 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/14 21:56 |
| S37 | 3  | (US-4912758-\$ or US-4991166-\$ or US-6351509-\$).did.                                     | USPAT   | OR | ON | 2007/03/15 20:40 |
| S38 | 1  | S37 and (peak near3 detect\$5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:41 |
| S39 | 55 | (echo near3 cancell\$6) and ((peak near3 detect\$5) same (error or (residual near3 echo))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:44 |
| S40 | 32 | S39 and @pd<"20031209"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:45 |
| S41 | 26 | S40 and (DAC or (digital near3 analog))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:51 |
| S42 | 10 | (delay near3 line) with (cascade near3 buffer)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:56 |

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|     |     |   |   |    |    |                  |
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| S43 | 8   | S42 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:15 |
| S44 | 0   | S43 and (echo near cancell\$7)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 20:56 |
| S45 | 1   | (US-20020070783-\$).did.  | US-PGPUB  | OR | ON | 2007/03/15 21:00 |
| S46 | 1   | S43 and (multiplexer with (delay near3 line))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:04 |
| S47 | 1   | (US-5278567-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:07 |
| S48 | 0   | (ammplitude near3 cancellation near3 sensor) and (buffer) and (variable near2 load) and (transistor or FET) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:13 |
| S49 | 2   | (amplitude near3 cancellation near3 sensor) and (buffer) and (variable near2 load) and (transistor or FET)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:14 |
| S50 | 744 | (buffer) and (variable near2 load) and (transistor or FET)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:14 |
| S51 | 32  | S50 and (amplitude near3 adjust\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:14 |
| S52 | 16  | S51 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:22 |

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|-----|-------|---|---|----|----|------------------|
| S53 | 16    | S52 and buffer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:18 |
| S54 | 2     | (amplitude near3 control) same<br>buffer same (variable near3 load) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:21 |
| S55 | 1556  | (amplitude adj control adj circuit)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:21 |
| S56 | 15    | S55 and (transistor) and (variable<br>near3 load)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:22 |
| S57 | 11    | S56 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:30 |
| S58 | 4     | S57 and buffer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:22 |
| S59 | 1     | (US-6404255-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:27 |
| S60 | 11115 | (transistor near3 NMOS) and (gate<br>near2 voltage) and resist\$5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:29 |
| S61 | 5963  | S60 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:38 |

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|-----|-----|---|---|----|----|------------------|
| S62 | 44  | S61 and (variable near2 load)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:30 |
| S63 | 87  | "L231" and (buffer or (delay near3 line))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:31 |
| S64 | 87  | S63 and (buffer or (delay near3 line))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:31 |
| S65 | 25  | S62 and (buffer or (delay near3 line))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:37 |
| S66 | 124 | (delay adj line) same multiplex\$5 same (control near3 logic) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:37 |
| S67 | 96  | S66 and @pd<"20031209"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:38 |
| S68 | 63  | S67 and Buffer  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/15 21:38 |
| S69 | 1   | (US-4458165-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:40 |
| S70 | 1   | (US-4549048-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:44 |
| S71 | 1   | (US-5278567-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:44 |
| S72 | 1   | (US-5334891-\$).did.  | USPAT   | OR | ON | 2007/03/15 21:45 |



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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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## 1. Echo cancellation on time-variant circuits

Demytko, N.; English, K.S.;

[Proceedings of the IEEE](#)

Volume 65, Issue 3, March 1977 Page(s):444 - 453

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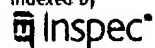
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